

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/14369

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 D01H5/74 D01H5/80 D01H5/86

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NL 42 235 C (VEREINIGTE KUGELLAGERFABRIKEN) 15 December 1937 (1937-12-15) page 1, line 65 -page 2, line 65; figures 1-3	1,2,4,5, 7,8,10, 11
X	EP 1 033 425 A (TEXPARTS GMBH) 6 September 2000 (2000-09-06)	20,22, 24,26,27
Y	column 3, line 1-26; figures 1,2	21,23, 25,28
X	GB 643 666 A (DAYTON RUBBER MFG COMPANY) 27 September 1950 (1950-09-27)	30
Y	page 2, line 88 -page 3, line 37; figures 2-6	21,23, 25,28
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search

20 April 2004

Date of mailing of the international search report

29/04/2004

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PCT/EP 03/14369

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 1 456 458 A (CARL NORDELL) 22 May 1923 (1923-05-22) page 1, line 39-75; figure 2 page 2, line 5-49 ---	1,20
Y	DE 18 15 739 U (FIRMA ADOLF BOCKEMÜHL) 28 July 1960 (1960-07-28) cited in the application page 3, line 5-26; figure 1 ---	1,20
A	US 2001/018823 A1 (ARTZT PETER ET AL) 6 September 2001 (2001-09-06) page 2, paragraphs 36,37; figures 1,3,4 -----	1,20

## INTERNATIONAL SEARCH REPORT

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
NL 42235	C		NONE	
EP 1033425	A	06-09-2000	DE 19907905 A1 AT 242347 T DE 50002413 D1 EP 1033425 A1 ES 2194634 T3 JP 3292720 B2 JP 2000248435 A US 6390962 B1	31-08-2000 15-06-2003 10-07-2003 06-09-2000 01-12-2003 17-06-2002 12-09-2000 21-05-2002
GB 643666	A	27-09-1950	NONE	
US 1456458	A	22-05-1923	NONE	
DE 1815739	U		NONE	
US 2001018823	A1	06-09-2001	DE 10008610 A1 DE 50101161 D1 EP 1127966 A1 EP 1312704 A1 JP 2001254234 A	30-08-2001 29-01-2004 29-08-2001 21-05-2003 21-09-2001

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## C.(Fortsetzung) ALS WESENTLICH GEGESEHENE UNTERLAGEN

Kategorie*	Bezeichnung der Veröffentlichung, soweit erforderlich unter Angabe der in Betracht kommenden Teile	Betr. Anspruch Nr.
Y	US 1 456 458 A (CARL NORDELL) 22. Mai 1923 (1923-05-22) Seite 1, Zeile 39-75; Abbildung 2 Seite 2, Zeile 5-49 ---	1,20
Y	DE 18 15 739 U (FIRMA ADOLF BOCKEMÜHL) 28. Juli 1960 (1960-07-28) in der Anmeldung erwähnt Seite 3, Zeile 5-26; Abbildung 1 ---	1,20
A	US 2001/018823 A1 (ARTZT PETER ET AL) 6. September 2001 (2001-09-06) Seite 2, Absätze 36,37; Abbildungen 1,3,4 -----	1,20

# INTERNATIONALER RECHERCHENBERICHT

Internationales Aktenzeichen

PCT/EP 03/14369

Im Recherchenbericht angeführtes Patentdokument		Datum der Veröffentlichung	Mitglied(er) der Patentfamilie		Datum der Veröffentlichung
NL 42235	C		KEINE		
EP 1033425	A	06-09-2000	DE	19907905 A1	31-08-2000
			AT	242347 T	15-06-2003
			DE	50002413 D1	10-07-2003
			EP	1033425 A1	06-09-2000
			ES	2194634 T3	01-12-2003
			JP	3292720 B2	17-06-2002
			JP	2000248435 A	12-09-2000
			US	6390962 B1	21-05-2002
GB 643666	A	27-09-1950	KEINE		
US 1456458	A	22-05-1923	KEINE		
DE 1815739	U		KEINE		
US 2001018823	A1	06-09-2001	DE	10008610 A1	30-08-2001
			DE	50101161 D1	29-01-2004
			EP	1127966 A1	29-08-2001
			EP	1312704 A1	21-05-2003
			JP	2001254234 A	21-09-2001